

# **APPENDIX 5**

## Appendix 5. Translation Map of the Bandman Sequence (SEQ ID NO: 130)

The nucleotide assignment of the Bandman sequence is given under the amino acid translation. The sequences identical between the Bandman sequence and SEQ ID NO:67 and the translated polypeptide SEQ ID NO:51, are bolded.

Note that a cluster of stop codons at the 5' end of the C $\beta$ 2 region makes the polynucleotide untranslatable.

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cggaggactcctgggttctgggtgctgggagancgatggggctctcagcgggtgggaaggacc 60
                                M G L S A V G R T 9
                                < -----
cgagctgagtcctgggacagcagagcgggcagcaccgggtttttgtcctgggcctccaggct 120
R A E S G T A E R A A P V F V L G L Q A 29
----- 5' intronic upstream of J $\beta$ 2.3 -----
Gtgagcacagatacgcagtattttggcccaggcaccggctgacagtgctcggtaagcgg 180
V S T D T Q Y F G P G T R L T V L G K R 49
--- >< ----- J $\beta$ 2.3 exon ----- >< -----
Gggctcccgcctgaagcccgggaactggggagggggcgccccgggacgcggggggcgctcgc 240
G L P L K P G N W G G G A P G R R G R R 69
----- intron -----
Agggccagtttctgtgccgcgtctcggggctgtgagccaaaaacattcagtacttcggcg 300
R A S F C A A S R G C E P K T F S T S A 89
----- >< ----- J $\beta$ 2.4 exon -----
Ccgggaccggctctcagtgctggaggacctgaaaaacgtgttcccacccgaggctcgctg 360
P G P G S Q C W R T stop K T C S H P R S L 109
----- > <-- C $\beta$ 2 (up to the end of the sequence)
Tgtttgagccatcagaagcagagatctcccacacccaaaaggccacactggtgtgcctgg
C L S H Q K Q R S P T P K R P H W C A W
Ccacaggcttctaccccgaccacgtggagctgagctggtgggtgaatgggaaggaggtgc
P Q A S T P T T W S stop A G G stop M G R R C
acagtggggtcagcacagaccgcagccccctcaaggagcagcccgcctcaatgactcca
T V G S A Q T R S P S R S S P P S M T P
gatactgcctgagcagccgcctgaggggtctcggccaccttctggcagaacccccgcaacc
D T A stop A A A stop G S R P P S G R T P A T
acttccgctgtcaagtccagtttctacgggctctcggagaatgacgagtggacccaggata
T S A V K S S S T G S R R M T S G P R I
gggcaaacctgtcacccagatcgtcagcgccgaggcctggggtagagcagactgtggct
G P N L S P R S S A P R P G V E Q T V A
tcacctccggtgaagtgagtcctctcctttttctctctatctttcgcctctctgctctcga
S P P V S E S L L F L S I F R R L C S R
accagggcatggagaatccacggacacagggggcgtgagggaggccagagccacctgtgca
T R A W R I H G H R G V R E A R A T C A
caggtacctacatgctctgttcttgtcaacagagtcttaccagcaaggggtcctgtctgc
Q V P T C S V L V N R V L P A R G P V C
caccatcctctatgagatcttgctaggggaaggccaccttgtagcctgctggtcagtgcc
H H P L stop D L A R E G H L V C R A G Q C
cctcgtgctgatggccatggtcaagagaaaggattccagaggctagctccaaaaccatcc
P R A D G H G Q E K G F Q R L A P K P S
caggtcattcttcatcctcaccaggattctcctgtacctgctcccaatctgtgttccta
Q V I L H P H P G F S C T C S Q S V F L
aaagtgattctcactctgcttctcatctcctacttacatgaatacttctctcttttttct
K V I L T L L L I S Y L H E Y F S L F S
gtttccctgaagattgagctcccaaccccccaagtacgaaataggc
V S L K I E L P T P K Y E I G

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